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Nationality: Iranian

Education: PhD of Medical Bacteriology Isfahan University of Medical Sciences 2013, Isfahan university of Medical Sciences

MSc Medical Microbiology, Isfahan University of Medical Sciences 1991-

Area of interests:

H. pylori infection and expression of virulence genes, Molecular bacteriology, food microbiology, Nosocomial infections, Antibiotic resistance and Antimicrobial nanoparticle effect.

Teaching background:

Teaching theoretical and practical medical bacteriology to medical and paramedical students and nutritional sciences, health, laboratory sciences, operating room since 1996 until now in Isfahan University of Medical Sciences, Faculty of Medicine and Teaching theoretical bacteriology for International students since 2019 until now.

Journal articles

- 1- Khademi F, Poursina F, Hosseini E, Akbari M, Safaei HG. Helicobacter pylori in Iran: A systematic review on the antibiotic resistance. Iranian journal of basic medical sciences. 2015 Jan;18(1):2.
- 2- Alipour T, Poursina F. The frequency of hybrid Enteroaggregative/Uropathogenic Escherichia coli isolated from clinical samples of Isfahan hospitals, Iran. Gene Reports. 2021 Jun 1;23:101042.
- 3- Alipour T, POURSIINA F. The Frequency of Enteroaggregative Escherichia Coli and Important Virulence Genes Isolated from Children with Diarrhea.
- 4- Monfared AM, Rezaei A, Poursina F, Faghri J. Detection of genes involved in biofilm formation in MDR and XDR Acinetobacter baumannii isolated from human clinical specimens in Isfahan, Iran. Archives of Clinical Infectious Diseases. 2019 Apr 30;14(2).
- 5- Mahmoudi MA, REZAEI A, POURSIINA F, FAGHRI J. Detection of Genes Involved in Biofilm Formation in MDR and XDR Acinetobacter baumannii Isolated from Human Clinical Specimens in Isfahan, Iran.
- 6- Ghaziasgar FS, Poursina F, Hassanzadeh A. Virulence factors, biofilm formation and antibiotic resistance pattern in Enterococcus faecalis and Enterococcus faecium isolated from clinical and commensal human samples in Isfahan, Iran. Iran Ann Ig. 2019 Mar 1;31:156-64.

- 7- Rahimi N, Poursina F, sadat Ghaziasgar F, Sepehrpor S, Hassanzadeh A. Presence of virulence factor genes (gelE and esp) and biofilm formation in clinical *Enterococcus faecalis* and *Enterococcus faecium* isolated from urinary tract infection in Isfahan, Iran. *Gene Reports*. 2018 Dec 1;13:72-5.
- 8- Poursina F, Fagri J, Mirzaei N, Safaei HG. Overexpression of spoT gene in coccoid forms of clinical *Helicobacter pylori* isolates. *Folia microbiologica*. 2018 Jul;63(4):459-65.
- 9- Nasirmoghadas P, Yadegari S, Moghim S, Esfahani BN, Fazeli H, Poursina F, Hosseininassab SA, Safaei HG. Evaluation of biofilm formation and frequency of multidrug-resistant and extended drug-resistant strain in *Pseudomonas aeruginosa* isolated from burn patients in Isfahan. *Advanced Biomedical Research*. 2018;7.
- 10- Poursina F, Sepehrpour S, Mobasherizadeh S. Biofilm formation in nonmultidrug-resistant *Escherichia coli* isolated from patients with urinary tract infection in Isfahan, Iran. *Advanced Biomedical Research*. 2018;7.
- 11- Taghizadeh M, Ghasemian Safaei H, Poursina F. Identification of *Lactobacillus plantarum* in breast milk. *Research in Molecular Medicine*. 2017 Nov 10;5(4):50-60.
- 12- Mirzaei N, Poursina F, Moghim S, Rashidi N, Ghasemian Safaei H. The study of *H. pylori* putative candidate factors for single-and multi-component vaccine development. *Critical reviews in microbiology*. 2017 Sep 3;43(5):631-50.
- 13- Nodoushan SA, Yadegari S, Moghim S, Isfahani BN, Fazeli H, Poursina F, Nasirmoghadas P, Safaei HG. Erratum: Distribution of the Strains of Multidrug-resistant, Extensively Drug-resistant, and Pandrug-resistant *Pseudomonas aeruginosa* Isolates from Burn Patients.
- 14- Bahrololoomi Z, Poursina F, Birang R, Foroughi E, Yousefshahi H. The effect of Er: YAG laser on *Enterococcus faecalis* bacterium in the pulpectomy of anterior primary teeth. *Journal of Lasers in Medical Sciences*. 2017;8(4):166.
- 15- Isfahani BN, Fazeli H, Babaie Z, Poursina F, Moghim S, Rouzbahani M. Evaluation of polymerase chain reaction for detecting coliform bacteria in drinking water sources. *Advanced Biomedical Research*. 2017;6.
- 16- Havaei SA, Poursina F, Ahmadpour M, Havaei SR, Ruzbahani M. Detection of Panton-valentine leukocidin gene isoforms of *Staphylococcus aureus* isolates in Al-Zahra Hospital, Isfahan-Iran. *Advanced Biomedical Research*. 2017;6.
- 17- Nodoushan SA, Yadegari S, Moghim S, Isfahani BN, Fazeli H, Poursina F, Nasirmoghadas P, Safaei HG. Distribution of the Strains of Multidrug-resistant, Extensively Drug-resistant, and Pandrug-resistant *Pseudomonas aeruginosa* Isolates from Burn Patients. *Advanced biomedical research*. 2017 Jun 27;6:74.
- 18- Mirzaei N, Poursina F, Moghim S, Ghaempanah AM, Safaei HG. The bioinformatics report of mutation outcome on NADPH flavin oxidoreductase protein sequence in clinical isolates of *H. pylori*. *Current microbiology*. 2016 May;72(5):596-605.
- 19- Moghoofei M, Fazeli H, Poursina F, Nasr-Esfahani B, Moghim S, Vaez H, Hadifar S, Sedighi M, Ghasemian Safaie H. Effects of environmental conditions on the morphologic change of *Pseudomonas aeruginosa* and its association with

- antibiotic resistance in burn patients. *Biological Journal of Microorganism*. 2015 Nov 22;4(15):21-8.
- 20- Moghoofoei M, Fazeli H, Poursina F, Esfahani BN, Moghim S, Vaez H, Hadifar S, Safaei HG. Morphological and bactericidal effects of amikacin, meropenem and imipenem on *Pseudomonas aeruginosa*. *Jundishapur journal of microbiology*. 2015 Nov;8(11).
 - 21- Havaei SA, Ahmadpour M, Poursina F, Ruzbahani M, Assadbeigi B. The prevalence of Panton-Valentine leukocidin gene in staphylococcus aureus isolated from alzahra hospital, Isfahan, Iran. *Journal of Isfahan Medical School*. 2015 Jan 21;32(315):2217-25.
 - 22- Taghizadeh M, Mirlohi M, Poursina F, Madani G, Khoshhali M, Bahreini N, Safaei HG. The influence of impact delivery mode, lactation time, infant gender, maternal age and rural or urban life on total number of *Lactobacillus* in breast milk Isfahan-Iran. *Advanced biomedical research*. 2015;4.
 - 23- Khademi F, Poursina F, Hosseini E, Akbari M, Safaei HG. *Helicobacter pylori* in Iran: A systematic review on the antibiotic resistance. *Iranian journal of basic medical sciences*. 2015 Jan;18(1):2.
 - 24- Poursina F, Zarkesh-Esfahani SH, Esfahani BN, Jamshidian A. Morphological and Bactericidal Effects of Different Antibiotics on *Helicobacter pylori*. 2014 - academia.edu
 - 25- Fazeli H, Taraghian A, Poursina F, Kamali R. Molecular identification of Esbl Genes Bla-Shv, Bla-Veb, and Bla-Per, in acinetobacter Baumannii isolated from patients admitted in a university hospital in Isfahan. *Iranian Journal of Public Health*. 2014;43(2):39.
 - 26- Poursina F, Faghri J, Safaei HG. COMPARISON OF CAGE AND BABA VIRULENCE GENES EXPRESSION IN SPIRAL AND COCCOID FORMS OF *HELICOBACTER PYLORI*. *Iranian Journal of Public Health*. 2014;43(2):22.
 - 27- Fazeli H, Taraghian A, Kamali R, Poursina F, Esfahani BN, Moghim S. Molecular identification and antimicrobial resistance profile of *Acinetobacter baumannii* isolated from nosocomial infections of a teaching hospital in Isfahan, Iran. *Avicenna Journal of Clinical Microbiology and Infection*. 2014;1(3).
 - 28- Mirzaei N, Poursina F, Moghim S, Rahimi E, Safaei HG. The mutation of the rdxA gene in metronidazole-resistant *Helicobacter pylori* clinical isolates. *Advanced biomedical research*. 2014;3.
 - 29- Khademi F, Faghri J, Moghim S, Esfahani BN, Fazeli H, Poursina F, Adibi P, Madhi M, Safaei HG. The study of mutation in 23S rRNA resistance gene of *Helicobacter pylori* to clarithromycin in patients with gastrointestinal disorders in Isfahan—Iran. *Advanced Biomedical Research*. 2014;3.
 - 30- Khademi F, Faghri J, Poursina F, Esfahani BN, Moghim S, Fazeli H, Adibi P, Mirzaei N, Akbari M, Safaei HG. Resistance pattern of *Helicobacter pylori* strains to clarithromycin, metronidazole, and amoxicillin in Isfahan, Iran. *Journal of Research in Medical Sciences: the official journal of Isfahan University of Medical Sciences*. 2013 Dec;18(12):1056.
 - 31- Madhi M, Poursina F, Moghim S, Khademi F, Adibi P, Faghr J, Fazeli H, Esfahani BN, Kiani SJ, Safaei HG. Recommendation of flaA and flaB as housekeeping

- genes in detection of *Helicobacter pylori*. *J Chem Biol Phys Sci*. 2013 Aug 1;3(4):2687-96.
- 32- Mirzaei N, Poursina F, Faghri J, Talebi M, Khataminezhad MR, Hasanzadeh A, Safaei HG. Prevalence of resistance of *Helicobacter pylori* strains to selected antibiotics in Isfahan, Iran. *Jundishapur Journal of Microbiology*. 2013 Jul 1;6(5).
 - 33- Poursina F, Faghri J, Moghim S, Zarkesh-Esfahani H, Nasr-Esfahani B, Fazeli H, Hasanzadeh A, Safaei HG. Assessment of *cagE* and *babA* mRNA expression during morphological conversion of *Helicobacter pylori* from spiral to coccoid. *Current microbiology*. 2013 Apr;66(4):406-13.
 - 34- Farzad Khademi, Faghri J, Poursina F, *et al.* Comparative Evaluation of Disk Diffusion and E-Test in Determining the Susceptibility of *Helicobacter Pylori* to Metronidazole, Clarithromycin and Amoxicillin .2013 February.
 - 35- Hosseini E, Poursina F, Van de Wiele T, Safaei HG, Adibi P. *Helicobacter pylori* in Iran: A systematic review on the association of genotypes and gastroduodenal diseases. *Journal of research in medical sciences: the official journal of Isfahan University of Medical Sciences*. 2012 Mar;17(3):280.
 - 36- HAVAEI S, Mirsalehian A, Bazarjani F, GHAVAMI NA, Bamdad K, Poursina F, TAMIZI FH. The effect of aluminium hydroxide, Freund's adjuvant and DTP vaccine on immunization of rabbit against encapsulated *Staphylococcus aureus* type 5. *JOURNAL OF ISFAHAN MEDICAL SCHOOL* (2008): 38-45.
 - 37- Ebadian B, Poursina F, Saghaei S. Evaluation of Disinfecting Effect of 0.5 Sodium Hypochlorite and 2 Glutaraldehyde on Heat-cure Acrylic Resin. *Journal of Mashhad Dental School*. 2007;31(3):217-22.
 - 38- Karami Nogourani M, Ghasemian Safai H, Ahmadi A, Narimani T, Poursina F. Comparative study on the effects of four commercial chewing gums on PH, bacterial count and streptococcus mutans of saliva. *Journal of Islamic Dental Association of Iran*. 2005 May 10;17(2):40-7.
 - 39- A.A., Khademi; S.A., havayi; Z., Mohamadi; F., Poursina. Comparative evaluation of the sustainability of antibacterial effects of doxycycline, chlorhexidine and sodium hypochlorite in bovine root dentine. *Journal of Shaheed Sadoughi University of Medical Sciences and Health Services*. 2005; 13 (2): 20-26
 - 40- JABARIFAR SE, Tabibian SA, Poursina F. Effect of fluoride mouthrinse and toothpaste on number of streptococcal colony forming units of dental plaque. *JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS)* November-December 2005 , Volume 10 , Number 6; Page(s) 363 To 367.
 - 41- Khademi AA, Havaei A, Kargoshaei A, Poursina F. Survey bacterial flora of dental root in the periapical infection. *J of research dental science*. 2003;13(4):36-45.
 - 42- KHADEMI AA, HAVAEI S, KAR GA, POUR SINA F. INVESTIGATION OF THE ROOT CANAL BACTERIAL FLORA IN THE TEETH WITH PERIAPICAL LESION. *JOURNAL OF ISLAMIC DENTAL ASSOCIATION OF IRAN (MAJALLAH-I-DANDANPIZISHKI)* WINTER 2002 , Volume 14 , Number 4 (39); Page(s) 36 To 45.
 - 43- FARHAD A, HAVAEI A, KHAJALI N, KARIMI F, POUR SINA F. (AH-26, ROTH-801, PURE ZOE PASTE) IN PRESENCE OR ABSENCE OF SMEAR LAYER.

JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS) Fall 2002 , Volume 7 , Number 3;
Page(s) 223 To 227.

- 44- Farhad AR, Havaei A, Farhad SZ, Poursina F. THE BACTERIOLOGIC EVALUATION OF ANTIBACTERIAL EFFECT: NORMAL SALINE 5.25% AND 0.5%, SODIUM HYPOCHLORITE AND CALCIUM HYDROXIDE. JOURNAL OF RESEARCH IN MEDICAL SCIENCES (JRMS) Fall 2000 , Volume 5 , Number 3; Page(s) 245 To 249.
- 45- Nodoushan SA, Yadegari S, Moghim S, Isfahani BN, Fazeli H, Poursina F, Nasirmoghadas P, Safaei HG. Erratum: Distribution of the Strains of Multidrug-resistant, Extensively Drug-resistant, and Pandrug-resistant *Pseudomonas aeruginosa* Isolates from Burn Patients.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5735558/#>

Books, textbooks and publications:

- 1- Textbook of general and practical food microbiology, 2021
- 2- **Diagnostic food microbiology, 2008**